

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.
 Moos, Walter H.
 Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420D1

<140> US

<141> 2001-03-14

<160> 37

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

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gccagcaaac	agatcagtgc	tgagaagcag	tacaaaggga	tcattgattg	tgtggtgaga	180
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gggggtgtgg	atcggcataa	gcagttctgg	cgctactttg	ctggtaacct	ggcgtccggt	360
ggggcgctg	gggccacctc	cctttgcttt	gtctaccgcg	tggactttgc	taggaccagg	420
ttggtgctg	atgtgggcag	gcgcgcccag	cgtgagttcc	atgggtctgg	cgactgtatc	480
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caaggcatca	ttatctatag	agctgcctac	ttcggagtct	atgatactgc	caaggggatg	600
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gcagtcgcag	ggctgctgtc	ctaccctttt	gacactgttc	gtcgtagaat	gatgatgcag	720
tccggccgga	aaggggccga	tattatgtac	acggggacag	ttgactgctg	gaggaagatt	780
gcaaaagacg	aaggagccaa	ggccttcctc	aaaggtgcct	ggtccaatgt	gctgagaggc	840
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<211> 897

<212> DNA

<213> Homo sapien

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggga	ttatagactg	cgtgggtccgt	180
attcccaagg	agcaggaagt	tctgtccttc	tggcgcggtg	acctggccaa	tgtcatcaga	240

tacttcccca	cccaggctct	taacttcgcc	ttcaaagata	aatacaagca	gatcttcctg	300
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cagtcggggc	gcaaaggagc	tgacatcatg	tacacgggca	ccgtcgactg	ttggaggag	780
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<210> 4
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<220>
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<400> 4	ttatatctcg agtatgggtg atcacgcttg gagcttccta aag	43
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<210> 6

<211> 43
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<400> 6
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<210> 7
 <211> 43
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 <213> Artificial Sequence

<220>
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<400> 7
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<210> 8
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 8
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<210> 9
 <211> 44
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<220>
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<400> 9
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<210> 10
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence primer

<400> 10
 tatgccatag catttttata c 21

<210> 11
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 <212> DNA

09310644-031401

<213> Artificial Sequence
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 <223> Sequence primer
 <400> 11
 cgccaaaaca gccagct 18
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 <212> DNA
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 <220>
 <223> Mutagenic oligonucleotide primer
 <400> 12
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 <211> 45
 <212> DNA
 <213> Artificial Sequence
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 <223> Mutagenic oligonucleotide primer
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 <210> 14
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 <212> DNA
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 <223> PCR primer
 <400> 14
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 <210> 15
 <211> 34
 <212> DNA
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 <223> PCR primer
 <400> 15
 cccgggctcg agttagagtc accttcttga gtc 34
 <210> 16
 <211> 41
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09810644-03401
 T.D.T.F.E.O. 44907360

<220>
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 <400> 16
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 <400> 17
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 <210> 18
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 <220>
 <223> Sequencing primer

 <400> 18
 aaatgataac catctcgc 18

 <210> 19
 <211> 18
 <212> DNA
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 <220>
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 <400> 19
 acttcaagga gaatttcc 18

 <210> 20
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 <210> 21
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<400> 21
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<210> 22
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<400> 22
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<210> 23
<211> 18
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<220>
<223> Sequencing primer

<400> 23
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<210> 24
<211> 31
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<220>
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<400> 24
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<210> 25
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
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<400> 25
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<210> 26
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<220>
<223> PCR primer

<400> 26

Sequence 031401

41

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<211> 41
<212> DNA
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<220>
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<400> 27

41

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<220>
<223> PCR primer

<400> 28

42

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<210> 29
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<220>
<223> PCR primer

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42

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<220>
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<210> 31
<211> 297
<212> PRT
<213> Homo sapien
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<400> 31

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20 25 30

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<210> 32
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<212> PRT
<213> Homo sapien
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Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Thr	Ala	Asp	
		35					40					45				
Lys	Gln	Tyr	Lys	Gly	Ile	Ile	Asp	Cys	Val	Val	Arg	Ile	Pro	Lys	Glu	
	50					55					60					
Gln	Glu	Val	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg	
65				70					75					80		
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys	
				85					90					95		
Gln	Ile	Phe	Leu	Gly	Gly	Val	Asp	Lys	Arg	Thr	Gln	Phe	Trp	Arg	Tyr	
			100					105					110			
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		115					120					125				

Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
 165 170 175
 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 275 280 285
 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
 290 295

<210> 33
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 <212> PRT
 <213> Homo sapien

<400> 33

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 Ile Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
 20 25 30
 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp
 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
 165 170 175
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220

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Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
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<210> 34
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 <212> DNA
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<220>
 <223> Primer for PCR amplification of human ANT3 for
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<400> 34
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<210> 35
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<220>
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 expression construct

<400> 35
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<220>
 <223> Primer for PCR amplification of EYFP

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 <223> Primer for PCR amplification of EYFP

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